

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	200	703/6.ccls. and @pd>="20080201"	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2009/01/06 10:04

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L4	327	((plastic or polymer or pet or hdpe) same preform same temperature) same (profile or distribution)	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2009/01/06 10:29



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Finite element simulation of axisymmetric preforms in precision forging at elevated temperatures

AG MAMALIS, DE MANOLAKOS, AK BALDOUKAS - Journal of materials processing technology, 1996 - cat.inist.fr

... hot-working conditions) of two axisymmetric **preforms**, namely a conical shell and a bevel gear **preform**. ... process for a particular **temperature** distribution of ...

Cited by 7 - Related articles - Web Search - All 4 versions

Simulation of the stretch blow molding process of PET bottles

JP McEvoy, CG Armstrong, RJ Crawford - Advances in Polymer Technology, 1998 - doi.wiley.com

... simulation, axisymmetric shell elements (SAX1) were used to model the 16.5-g **pre-form**. ... used to model the **preforms** (Fig ... The **temperature** profile of a **preform** (Fig ...

Cited by 15 - Related articles - Web Search - BL Direct - All 2 versions

Experimental study and numerical simulation of the injection stretch/blow molding process

FM SCHMIDT, JF AGASSANT, M BELLET, L Desoutter - Polymer engineering and science, 1998 - cat.inist.fr

... blow molding process of **PET** bottles is a ... of the pressure evolution, **preform** free inflation ... en marcha propiedad; Efect temperature; **Temperature** effect; Efecto ...

Cited by 17 - Related articles - Web Search - BL Direct

Viscoelastic simulation of PET stretch/blow molding process

FM SCHMIDT, JF AGASSANT, M Bellet, L Desoutter - Journal of Non-Newtonian Fluid Mechanics, 1996 - Elsevier

... 6] has carried out simulations of **PET** stretch/blow ... and stretch rod) and polymer, and **temperature** gradients. ... rod and the bottom of the **preform** induces localized ...

Cited by 13 - Related articles - Web Search - All 3 versions

Finite element simulation of pet stretch/blowmolding process

K Chung - Journal of Materials Shaping Technology, 1989 - Springer

... stretch/blow-molding process, an initial **pre-form**, usually called ... of the axisymmetric shapes of the **preform** and the ... the mechanical behavior of the **PET** material ...

Cited by 5 - Related articles - Web Search - All 2 versions

Influence of microstructure evolution on mechanical strength of blown poly (ethylene terephthalate)

L Chevalier - Plastics, Rubber and Composites, 1999 - ingentaconnect.com

... CHARACTERISTICS OF BLOWN BOTTLES **Preforms** were heated using an ... Figure 12 shows a **preform** and the injected speci ... in the central region and the **PET** becomes more ...

Cited by 5 - Related articles - Web Search - BL Direct - All 4 versions

Thermal residual stresses in functionally graded and layered 6061 Al/SiC materials

S Ho, EJ Lavernia - Metallurgical and Materials Transactions A, 1996 - Springer

... distribution of 10, 20, and 30 vol **pet** SiC ... mostly tensile for the upper region of the **preform** and compressive for the lower region of the **pre-form**. ...

Cited by 6 - Related articles - Web Search - BL Direct - All 4 versions

[CITATION] STUDY OF THE SIMULTANEOUS EXTENSION AND INFLATION OF **PET** PREFORMS

A Derdouri, RE Khayat, A Garcia-Rejon - Advances in Computer-Aided Engineering (Cae) of Polymer ..., 1994 - American Society of Mechanical Engineers

Cited by 2 - Related articles - Web Search - Library Search - BL Direct

... uniaxial deformation of amorphous poly (ethylene terephthalate) above glass transition temperature

E Gorlier, JF Agassant, JM Haudin, N Billon - Plastics, Rubber and Composites, 2001 - ingentaconnect.com

... thicknesses representative of the **preforms** used in ... Uniaxial deformation of amorphous

PET above glass transition ... are first heated to the **temperature** of the ...

Cited by 4 - Related articles - Web Search - BL Direct - All 2 versions

Modeling of Industrial Polymer Processes: Injection Molding and Blow Molding

DM Gao, KT Nguyen, JF Hélu, D Laroche, A Garcia- ... - Advanced Performance Materials, 1998 - Springer

... Keywords: blow molding, **finite element** modelling, Hele-Shaw ... characteristics and their

temperature dependence among others) the **preform** dimensions (form and ...

Cited by 8 - Related articles - Web Search - Library Search - BL Direct - All 2 versions

Key authors: **F Schmidt** - **J Agassant** - **M Bellet** - **J McEvoy** - **C Armstrong**

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Modelling of poly (ethylene terephthalate) in injection stretch-blow moulding

GH Menary, CG Armstrong, RJ Crawford, JP McEvoy - Plastics, Rubber and Composites, 2000 - ingentaconnect.com

 ... **temperature** distribution along the length of the **pre-form**, but is ... of the **preform** ending up in the sidewall as ... Four **preforms** were used for the measurements ...

Cited by 10 - Related articles - Web Search - BL Direct - All 4 versions

The avoidance of defects in radially extruded tubular parts by preforming

SB PETERSEN, R BALENDRA, JMC RODRIGUES, PAF ... - Journal of materials processing technology, 1997 - cat.inist.fr

 ... and **preform** die design was accomplished through a comprehensive analysis using the **finite-element** method. Experiments carried out at room **temperature** in E 1 CM ...

Cited by 3 - Related articles - Web Search - All 2 versions

Three-dimensional viscoplastic FEM simulation of a stretch blow molding process

S Wang, A Makinouchi, T Nakagawa - Advances in Polymer Technology, 1998 - doi.wiley.com

 ... 2. In the first step, the **pre-form** of the ... core and the injection mold is filled with melted **PET**. ... cooling and heat adjustment process, the **preform** is enclosed ...

Cited by 12 - Related articles - Web Search - BL Direct - All 3 versions

Finite element analysis of compressible viscoplasticity using a three-field formulation

Application ...

M Bellet - Computer Methods in Applied Mechanics and Engineering, 1999 - Elsevier

 ... analysis of hot forging of cold pre-compacted **preforms**. ... forging of a connecting rod **preform** is presented ... a quadratic approximation of the **temperature** profile in ...

Cited by 3 - Related articles - Web Search - All 4 versions

A finite-element prediction of densification kinetics during the hot isostatic pressing of metal

AGK JINKA - Journal of materials processing technology, 1996 - cat.inist.fr

 ... with- and without-container cylindrical HIP **preforms**. ... during the normal HIP **temperature** and pressure ... Méthode élément fini; **Finite element** method; Método ...

Cited by 1 - Related articles - Web Search - All 4 versions

[PDF] ► Estimation of the initial temperature profile and the heat transfer coefficient in polymer

A Bendada, KT Nguyen - ASME Proc. 3rd Int. Conf. on Inverse Problems in Engineering ..., 1999 - me.ua.edu

 ... used for experimental validation is polyethylene terephthalate (**PET**). ... **temperature** evolution in the **preform** is given by ... amount $\Delta f(x)$, the **temperature** will vary ...

Cited by 1 - Related articles - View as HTML - Web Search

[HTML] ► Intermediate Velocity Impact Response of Carbon/Epoxy Composites with Polycarbonate Facing.

UK Vaidya, CA Ulven, MV Hosur, J Alexander, L ... - POLYMERS AND POLYMER COMPOSITES, 2003 - rapra.net

 ... order of a multi-layered **preform**, was negligible ... The improvement in high-**temperature** storage stability is ... Title: RHEOLOGICAL BEHAVIOUR OF PP/PET AND MODIFIED PP ...

Cited by 1 - Related articles - Cached - Web Search - BL Direct - All 4 versions

A COUPLED BOUNDARY/FINITE-ELEMENT APPROACH FOR THE THREE-DIMENSIONAL SIMULATION OF AIR VENTING IN ...

RE KHAYAT, P RADUCANU - Int. J. Numer. Meth. Engng, 1998 - doi.wiley.com

... commercial production of carbonated beverage bottles made of PET. ... injection molding,

(ii) heating of the **preform** to an appropriate **temperature** distribution, ...

Cited by 1 - Related articles - Web Search - BL Direct - All 3 versions

The formability of the Al- 5 & percnt; SiC composite obtained using P/M method

S SZCZEPANIK, W LEHNERT - Journal of materials processing technology, 1996 - cat.inist.fr

... was obtained by hot **preform** forming in ... and then annealing at the **temperature** 540

°C ... Fließsspannung; Méthode élément fini; **Finite element** method; Método ...

Cited by 4 - Related articles - Web Search - All 2 versions

Finite-element analysis and simulation of polymers: a bibliography (1976-1996)

J Mackerle - MODELLING AND SIMULATION IN MATERIALS SCIENCE AND ..., 1997 - iop.org

... injection moulding; extrusion blow moulding; **preform** for blow ... on the pressure-volume-

temperature equation 3rd ... viscous flow through fibre **preforms** J. Mater. ...

Cited by 3 - Related articles - Web Search - BL Direct - All 5 versions

Key authors: [F Schmidt](#) - [J Agassant](#) - [M Bellet](#) - [J McEvoy](#) - [C Armstrong](#)



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